

Please cancel claims 1-4 without prejudice or disclaimer.

23 Please add the following new claims:

--5. A motor pump system comprising:

an electromagnetic motor comprising a main body, a coil, and a movable hollow free piston;

a flow meter coupled to one end of the electromagnetic motor;

a cylinder block coupled to another end of the electromagnetic motor;

at least two non-return valves;

a water inlet;

a water outlet; and

a pressure limiting device.

6. The system of claim 5, wherein the flow meter comprises a free bucket wheel.

7. The system of claim 6, wherein the flow meter further comprises an electromagnetic detector and wherein the free bucket comprises at least one permanent magnet whose movement is detected by the electromagnetic detector.

8. The system of claim 5, wherein the pressure limiting device is a bore provided in the cylinder block and comprises a calibrated spring-loaded valve which connects the water outlet to a base of the free hollow piston.

9. The system of claim 8, wherein motor pump is adapted to recycle water without driving the flow meter when there is back pressure at the water outlet.

10. The system of claim 5, wherein the main body is one of machined in a single piece and made of plastic.

11. The system of claim 5, wherein the motor pump is adapted to couple to an automatic coffee machine.

12. The system of claim 5, wherein the motor pump is adapted to couple to a device which requires a pressurized liquid supply from a reservoir.

13. The system of claim 5, further comprising a pressure controller associated with the motor pump.

14. The system of claim 13, wherein the pressure controller comprises a chamber.

15. The system of claim 14, wherein the chamber of the pressure controller is adapted to receive liquid flow.

16. The system of claim 14, wherein the pressure controller further comprises a flexible membrane actuating an electric contact for controlling an automatic liquid supply system.

17. The system of claim 13, wherein the pressure controller comprises an outlet orifice for communicating with the motor pump.

18. The system of claim 13, wherein the pressure controller is adapted to receive two liquid flows.

19. The system of claim 18, wherein one of the two flows is directed to a chamber in the pressure controller via a central passage and wherein another of the two flows is directed to an outlet orifice via a peripheral passage.

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20. The system of claim 13, wherein the pressure controller comprises a fixed element and an end piece.

21. The system of claim 20, wherein the fixed element is coupled to one of the motor pump and a frame supporting the motor pump.

22. The system of claim 20, wherein the end piece is mounted to a reservoir.

23. The system of claim 22, wherein the reservoir communicates with and provides a supply to the motor pump.

24. The system of claim 20, wherein the fixed element and the end piece are releasably coupled together.

25. The system of claim 22, wherein the fixed element and the end piece are releasably coupled together via a quick connection.

26. The system of claim 13, wherein the pressure controller has a fixed element comprising a body, a hollow piece arranged within the body, and two passages separated by

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the hollow piece.

27. The system of claim 26, wherein the pressure controller further comprises an end piece and an axially movable bush disposed within the end piece.

28. The system of claim 27, wherein the end piece further comprises a spring associated with the bush which is adapted to close a peripheral passage.

29. The system of claim 27, wherein the fixed element is removably coupled to the end piece such that when the fixed element is uncoupled from the end piece, a central passage is closed by a spring actuated valve.

30. The system of claim 27, wherein the bush is slidably disposed with the end piece and wherein the fixed element further comprises a cylindrical shutter which is slidably disposed around the hollow piece.

31. The system of claim 30, wherein the cylindrical shutter is biased via spring.

32. The system of claim 30, wherein the cylindrical shutter is adapted to isolate a

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liquid circuit communicating with the motor pump so as to prevent a liquid remaining in the motor pump from flowing out of the fixed element when the fixed element is uncoupled from the end piece.

33. A motor pump system comprising:

a motor including a main body having an inlet end and an outlet end;

a flow meter coupled to the inlet end;

an outlet body coupled to outlet end; and

a pressure controller comprising an end piece and a fixed element which is removably coupled to the end piece,

wherein the fixed element is coupled to the outlet body.

34. The system of claim 33, wherein the main body comprises a coil, and a movable hollow piston.

35. The system of claim 33, wherein the flow meter comprises a free bucket wheel and an electromagnetic detector.

36. The system of claim 33, wherein the fixed element comprises a chamber, an

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37. The system of claim 33, wherein the end piece comprises a spring actuated movable bush and a valve adapted to close off a central passage.

39. A motor pump system comprising:

- a motor including a main body having a first end and a second end;
- a flow meter coupled to the first end and having an inlet;
- an outlet body coupled to the second end and having an outlet;
- a pressure controller comprising a fixed element and an end piece;
- the fixed element comprising a movable cylindrical shutter and an outlet which is in fluid communication with the outlet of the outlet body; and

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